

Tables and Limits ... Set 1

11. Use the table of values to evaluate the limit.

x	-0.3	-0.2	-0.1	0	0.1	0.2	0.3
f(x)	7.018	7.008	7.002	20	7.002	7.008	7.018
g(x)	4.126	4.789	4.989	8	8.0015	8.1016	8.546
h(x)	4971	8987	9972	undefined	8.997	8.987	8.971

a. $\lim_{x \rightarrow 0^+} f(x)$

b. $\lim_{x \rightarrow 0^-} f(x)$

c. $\lim_{x \rightarrow 0} f(x)$

d. $\lim_{x \rightarrow 0^+} g(x)$

e. $\lim_{x \rightarrow 0^-} g(x)$

f. $\lim_{x \rightarrow 0} g(x)$

g. $\lim_{x \rightarrow 0^+} h(x)$

h. $\lim_{x \rightarrow 0^-} h(x)$

i. $\lim_{x \rightarrow 0} h(x)$

12. Use the table of values to evaluate the limit.

X	2.75	2.9	2.99	2.999	3	3.001	3.01	3.1	3.25
f(x)	5.313	5.710	5.970	5.997	8	6.003	6.030	6.310	6.813
g(x)	1.99499	1.99950	1.99995	1.99999	und	2.00005	2.00050	2.00499	2.01
h(x)	199	540	700	854	2	6.003	6.030	6.310	6.813

a. $\lim_{x \rightarrow 3} f(x)$

b. $\lim_{x \rightarrow 3} g(x)$

c. $\lim_{x \rightarrow 3} h(x)$